

651 CATTCTTTGGCTTTGGCTTTTATGCTCTCTCATGGTTAAAGT 700

Homo sapiens.

[illegible]


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51  HisProGlnAsnAsnSerIleCysCysThrIleCysCysHisIleCysGlyThrIle 67
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305  CACTCTCAAAATAATATGATTTGTTATCAAAAGAGCAAAAGGAACTA 354

67  rLeuTyAsnAspCysProGlyProGlyGlnAspThrAspCysArgGluC 84
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355  CTGTCAAAATGACATGCTGACGGCTGGGGAGGATATCGGACTGACGGAGT 404

84  ysGluSerGlySerPheThrAlaSerGluAsnHisLeuArqHisCysLeu 100
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405  GAGACACGGCTCTCTACACCCCTTCAGAAAACCCACCTCAGACACTGCCGC 454

101  SerCysSerIleCysArgIleCysGluMetGlyGlnValGluIleSerSerCys 117
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455  AGCTGCTCAAAATATGCAAAAGAAATAGATGATGATGATGATGATGATG 504

117  sThrValAspArgAspThrValCysGlyCysArgIleCysAsnGlnIleArgH 134
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505  CACAGTGGACGGGATACCGGTGCTGCGCTGCGAGGAAGACCACTACCGGC 554

134  IstYrTrpSerGluAsnLeuPheClnCysPheAsnCysSerLeuCysLeu 150
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555  ATATTGGAGTGAAGACCTTTCCAGTGGCTTCAATTCGACGCTCTGCCCTC 604

151  AsnGlyThrValHisLeuSerCysGlnGlnIleCysGlnAsnThrValCysTh 167
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605  AATGAAATGATGAAATGCTGATGAAATGAAATGAAATGAAATGAAATG 654

167  rCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSerCysSerA 184
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655  CTGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 704

184  enYstIleCysSerLeuGlyCysThrIleCysLeuPheClnCysLeuProGln 200
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705  ACTGTAAGAAAGCTGAGTGCACCAAGTTCGCTACCCACAGATTCAG 754

201  AsnValIleGlyThrGluAspSerGlyThrThrValLeuLeuProLeuVa 217
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755  AATGATTAAAGAAATGATGAAATGATGAAATGATGAAATGATGAAATG 804

217  lIlePheClnCysLeuPheClnCysLeuPheClnCysLeuPheClnCys 234
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805  CATTTTCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT 854

234  yrArgTyGlnArgTrpLysSerLysLeuTySerIleValCysGlyLys 250
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855  ATGCTTACCAAGCTGCAATGCAAGCTGCAATGCAAGCTGCAATGCAAG 904

251  SerThrProGlyIleGlyClnCysGluClnCysGluClnCysGluClnCys 267
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905  TGCACATTTAAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 954

267  lAlaProAsnProSerPheSerProThrProGlyPheThrProThrLeuG 284
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955  GACCCCAACCAAGCTGACAGTGCACAGTGCACAGTGCACAGTGCACAG 1004

284  lPheSerProValProSerSerThrPheThrSerSerSerThrTyThr 300
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1005  GTTTCAGTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCTGGCT 1054

301  proIleAspCysProAsnProAlaProAsnArgGluValAlaProThr 317
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1055  CCGGTGATTTGCTGGAAATTTTGAGGATGGGAGAGAGAGAGAGAGAG 1104

317  oTyGlnGlnValAspProIleLeuAlaThrAlaLeuAlaSerAspProI 334
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1105  CTATCAGGGGCTGACACCAATGCTGACACCAATGCTGACACCAATGCT 1154

334  leProAsnProLeuGlnLysTrpGluAspSerAlaHisLysProGlnSer 350
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1155  TCCCAACCCCTTCTCACTGACATGATGATGATGATGATGATGATGATG 1204

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351  LeuAspThrAspProAlaThrLeuAlaThrLeuAlaValValGlnAsnValTr 467
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1205  CTACACACTGATGACCGCGGACGCTGTAGCGGTGTTGAGAAACAGCTGCC 1254

367  oProLeuArgTrpLysGluPheValArgArgLeuGlyLeuSerAspHisS 484
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1255  CCGCTGCGGTGGAAAGCAATTCCTGAGGAGGCTATGAGGTGAGTGAAGA 1304

484  lIleAspArgIleGluLeuGlnAsnGlyArgCysLeuArgGlnAlaGln 400
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1305  AGATCGATCGGTGAGATTCAGAAAGGGAGTGGCTGAGGAGAGGGGAA 1454

401  TyrSerMetIleuAlaThrTrpArgArgArgTrpArgArgArgAlaIleH 417
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1455  TACAAATAGTGGTGGAGTGGTGGAGTGGTGGAGTGGTGGAGTGGTGGAG 1404

417  rLeuGluLeuLeuGlyArgValLeuArgArgPheAspLeuLeuGlyCysL 434
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1405  GCTGGAGCTGTGGGACCGTGGCTGGAGTGGCTGGAGTGGCTGGAGTGG 1454

434  euGluAspIleGluAlaLeuCysGlyProAlaAlaLeuProProAla 450
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1455  TGGAGGACATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1504

451  ProSerLeuLeuArg 455
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1505  CCGAGTCTTCAGAA 1519

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1269 CCGGTCGCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1318
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1519 GCGAGTCTCTCCAGA 1533

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seq_documentation_block:

ID AAC83946 standard: DNA: 2088 bp

AC

XX

XX

DI 02 MAR 2001 (first entry)

XX Human 30 kDa TNF inhibitor precursor coding sequence.

DE

XX TNF inhibitor; antiinflammatory; Tumour Necrosis Factor, interleukin,

KW IL-1; inflammatory disease; degenerative disease; human; ss.

KW

XX Homo sapiens.

OS

XX US6143866-A.

PN

XX 07-NOV-2000.

FD

XX 19-JAN-1995; 95US-0375242.

DE

XX 19-JUL-1990; 90US-0555274.

ER

PR 09-JUL-1993; 93US-0090466.

PR

PR 18-JUL-1989; 89US-0381080.

PR

PR 11-DEC-1989; 89US-0450429.

PR

PR 07-FEB-1990; 90US-0479661.

XX

XX (AMGE-) AMGEN INC.

PA

XX Squires C, King MW, Hale KK, Brewer MT, Thompson RC;

PI Vandecasteele KW, Vandelee J, Kohns J,

XX

XX WPI; 2001-006443/01

DR

DR P-PSDB; AAB37677.

XX

XX Novel 30 kDa tumor necrosis factor inhibitor analog comprising a

PI non-native cysteine residue cross linked with polyethylene glycol,

PI useful for treating inflammatory and degenerative diseases mediated by

PT TNF

XX

XX Example 6; Fig 21; 82pp; English.

XX

CC The present invention relates to Tumour Necrosis Factor (TNF) inhibitors

CC (see AAB37676 and AAB37685), which have TNF inhibitory activity, the

CC novel TNF inhibitors of the present invention are useful as therapeutic

CC agents for inhibiting the activity of TNF and interleukin (IL-1), and

CC for treating inflammatory and degenerative diseases mediated by TNF. The

CC present sequence is the coding sequence for the precursor of 40 kDa TNF

CC inhibitor. The 30 kDa TNF inhibitor can inhibit TNF alpha.

XX

XX Sequence 2088 bp; 439 A; 626 C; 578 G; 445 T; 0 other.

alignment_scores:

Quality: 248/100 Length: 455

Ratio: 5.466 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-525-998A-2 x AAC83946

Align seq 1/1 to: AAC83946 from: 1 to: 2088

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169 AAG 218

17 LeuLeuValGlyIleTyrProSerGlyValIleGlyLeuValProHisL 34

219 GCGCTGCTGGGCAATATACCCCTCAGGGGGTATGGAGTGGCTCCAC 268

34 euGlyAspArgGluLysArgAspSerValCysProGlnGlyLysTyrIle 50

269 TAGCGGACAGGGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 318

51 HisProGlnAsnAsnSerIleCysCysThrLysCysHisLysGlyThr 67

319 CAGGCTCAAAATATATGATTGATGTAATAAGAGAGAGAGAGAGAGAG 368

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369 CTGTACAAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 418

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134 rTyrTrpSerGluAsnLeuPheGlnCysPheAsnCysSerLeuCysLeu 150

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619 AAG 668

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seq_name: us-09-525-998a-2.rng

seq_documentation_block:

ID: AA209170 standard; cDNA: 2111 BP.

XX

AC

XX

DT

XX

Human tumour necrosis factor binding protein (cDNA)

tumour necrosis factor binding protein (18): insoluble protein; adhesion; anti-inflammatory; antimalarial; treatment; septic shock; inflammation; autoimmune glomerulonephritis; cerebral malaria; immune response; antaagist; diagnosis; ds.

XX Homo sapiens.

XX Key

XX Location/Qualifiers

FT CDS

FT 187..1554

FT /*tag= a

FT /*product= "TNF binding protein"

FT 187..273

FT /*tag= b

FT 274..1551

FT /*tag= c

XX EP949121-A2.

XX 01-SEP-1999.

XX 31-AUG-1999: 903P 01157-07.

XX 20-APR-1990: 90CH-0001347.

XX 12-SEP-1989: 90CH-0003319.

XX 08-MAR-1999: 90CH-0006746.

XX (nchr) name: MAF, LA KOSHF & CO AG F.

XX Brockhaus M, Jambis Z, Gentz R, Lesslauer W, Loetscher H, P1 Schlaeger E;

XX WPI: 1999-480840/41.

XX 9-PSHF: AAY30344.

XX New insoluble proteins, and fragments, that bind to tumor necrosis factor, used to treat e.g. septic shock or cerebral malaria

XX Claim 4: Fig 1: 25pp; German.

XX This invention describes novel homogeneous insoluble proteins (I) and their functional fragments (II) and their ability to bind tumour necrosis factor (TNF). The products of the invention have anti-inflammatory and antimalarial activity. (i) and (ii) are used (i) to treat diseases in which TNF is involved (e.g. septic shock, autoimmune glomerulonephritis, cerebral malaria, immune responses and inflammation), (ii) to purify TNF, (iii) to identify TNF antagonists and (iv) for diagnostic determination of TNF in body fluids. Antibodies raised against (I) are used for affinity purification of (I). This sequence encodes a tumour necrosis factor binding protein described in the method of the invention.

XX Sequence 2111 BP; 445 A; 629 C; 587 G; 450 T; 6 other;

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Quality: 2487.00 length: 455

Parity: 5.466 gaps: 6

Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-525-998A-2 x AA209170

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ID AA248475 standard; DNA; 2161 BP.

XX AA248475;

XX AC

XX AT

XX CT

XX DE

XX Human tumour necrosis factor receptor (TNFR1) nucleotide sequence.

XX DE

XX Tumour necrosis factor receptor type 1; TNFR1; antinecrosis; infection;

XX inflammation; tumour formation; TNFR1; anticancer; ds.

XX KW

XX OS

XX Homo sapiens.

XX DN

XX US6007995-A.

XX PD

XX 28-DEC-1999.

XX PP

XX 26-JUN-1998; 98US-0106038.

XX PR

XX 26-JUN-1998; 98US-0106038.

XX PA

XX (ISIS) ISIS PHARM INC.

XX PI

XX Baker HF, Cowsort LM;

XX DR

XX WPI; 2000-105333/09.

XX PT

XX Antinecrosis inhibition of tumor necrosis factor type 1 expression for

XX diagnosis, treatment and prevention of disease, particularly tumors

XX PS

XX Example 10; Columns 33-36; 34pp; English.

XX CC

XX The invention provides antinecrosis compounds targeted to human tumour

XX necrosis factor receptor type 1 (TNFR1) RNA. These antinecrosis compounds

XX can be used in a method of inhibiting the expression of TNFR1 human cells

XX or tissues. The antinecrosis compounds specifically hybridize with one or

XX more nucleic acids encoding TNFR1 modulating the function of nucleic

XX acid molecules encoding TNFR1, ultimately modulating the amount of TNFR1

XX CC


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356 TAGGGCAACAGGACAAACAGATAGTGTGTGTGTCACCAAGGAAAAATATATC 405
51 HisProGlnAsnAsnSerIleCysCysThrIysCysHisIysCysIleThrIy 67
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67 rLeuIyrAsnAspCysProGlyGlnAspThrAspCysAsnGluC 84
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456 CTGTGTAATGACTGCTCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 505
84 YScuSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeu 100
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506 GTGAGAGAGGCTCTCTCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 555
103 SerCysSerIysCysAspIysCysMetCysCysValCysIleIleSerSerCys 117
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117 sThrValAspAspThrValCysGlyCysArgLysAsnGlnTyrArgH 134
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XX	AAQ06248;
XX	29-JAN-1991 (first entry)
XX	Human Tumour Necrosis Factor Receptor cDNA Insert.
XX	Tumour necrosis factor binding protein; TNF R1; TNF-receptor;
KW	LambdA1NF-P2; rTNF-R8; ss.
XX	Homo sapiens.
XX	Key
PH	Location/Qualifiers
FT	213..177
FT	/*tag= a
FT	/tag= b
XX	EP393438-A.
XX	24-OCT-1990.
XX	06-APR-1990. GEF 6156624.
XX	21-JUN-1989. B95B 2926292.
PR	21-APR-1989. B95B-5914161.
XX	(BOU) BOEHRINGER INGELHEIMINT.
XX	Hauptmann R, Himmeler A, Maurer-Pody L, Stratowa O.
XX	WPI; 1990 321987/43.
DR	P-PSDB; AAR07451.
XX	cDNA encoding TNF binding protein and TNF receptor used in
PT	tumour treatment used to understand mechanism to TNF action
XX	disclosure; Fig 91(1-2); 51pp; German.
XX	ratTNF-R8 (AAQ06248) was used to screen the HS9101 cDNA library.
CC	LambdA1NF-P2 encodes the extracellular human TNF R2 and was used to


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seq_documentation_block:

ID: AAQ06284 standard; DNA; 2173 BP.

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11 29-JAN-1991 (first entry)

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XX Rat Tumor Necrosis Factor Receptor cDNA
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XX Tumor necrosis factor binding protein, TNF-R1, TNF-receptor;
XX ratNF-R1; ss.
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XX Rat rattus.
XX
XX Key Location/Qualifiers
XX CDS 245..1627
XX /tag= a
XX /feature=rat TNF-R1
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XX EP343438 A
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XX PD 24-OCT-1990.
XX
XX 26 Aug 1990. 1000 bases.
XX
XX 21-JUN-1989; 9490-3929282.
XX 21-APR-1989; 890E-3913101.
XX (BOEH) BOEHRINGER INGELHEIMINT.
XX
XX Hauptmann R, Himmler A, Maurer-Fody I, Stratowa C;
XX WPI; 1990-321987/43.
XX P-PFB; AAP07450.
XX
XX DNA encoding TNF binding protein and TNF-receptor - used in
XX tumour treatment and to understand mechanisms to TNF action
XX
XX Disclosure: Fig 8(1-2); 51pp; German.
XX
XX A rat brain cDNA analogue of the HS913T cDNA library from rat
XX glioma cell line C6 (AACC 021197) is prepared in lambda gtl1.
XX The isolated clone ratNF-R1 is used as probe to isolate the entire
XX human TNF receptor, as represented in AAQ06284.
XX See also AAQ06282-06285.
XX
XX Sequence 2173 BP; 503 A; 642 C; 561 G; 473 T; 0 other;
XX
XX alignment_scores:
XX Quality: 150.50 Length: 450
XX Ratio: 4.172 Gaps: 4
XX Percent Similarity: 81.457 Percent Identity: 64.459
XX
XX alignment_block:
XX us-09-525-998a-2 x AAQ06284 11
XX
XX Align set 121 503 AAQ06284 11000 1 100 4173
XX
XX 1 MetGlyLeuSerThrValIleAspIleuLeuProIleuValIleuLeu 301 17
XX |
XX |
245 ACGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 294
246 |
17 LeuLeuValGlyIleTyrThrSerGlyValIleGlyLeuValProHisL 44
18 |
295 TCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 144
296 |
34 CnlyAspAlaGlnLysArgAspSerValCysThrGlnGlyIleGlyIle 50
35 |
345 TGGTCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 194
346 |
37 MetGlyLeuSerThrValIleAspIleuLeuProIleuValIleuLeu 17
38 |
395 CACCAAGAAAGAAATTCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 444
396 |
67 rLeuTyrAsnAspCysProGlyThrGlyGlnAspThrAspThrAspGlnG 84
68 |
445 GTTGGTCAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 144

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84  ysGlsrGlySerPheThrAlaSerGluAsnHisLeuAraHisCysLeu 100
   ::::::::::::::::::::::::::::::::::::::::::::::::::::
495  CUCATAAAGGACCCCTTACAGCTTCCAGAACACAGTCAGAGTCTCTC 544
101  SerCysSerLysCysAraGlySerMetGlyGlnValGluIleSerSerCys 117
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
545  AATTGCAAGACATGTGTGAAA-AAATATTTCAAGTGAAGATTTCTGCTTG 594
117  sThrValAspArgAspThrValCysGlyCysAraGlySerGlnIleArgH 134
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
595  CAAAGCTGACATCGGATACCGTCTGTGGGTCCAGGAAGAACAAATTCACGC 644
134  iSTYrTrpSerGluAsnLeuPheGlnCysPheAsnCysSerLeuCysLeu 150
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
645  OCTACCTGACACAGCGCATTTCCACTGTCTGCACTGGACGCCCTTCCTTC 694
151  AsnGlyThrValHisLeuSerCysGlnIleLysGlnAsnThrValCysTh 167
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
695  AATGGATGATGTAATATGCTGTGAAGAGAGAACAGACAGGTGTGTAA 744
167  rCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSerCysSerA 184
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
745  GUGCCACGACGACATCTCTCTAAGCGGAAATGAGTCCACGCCCTTCACGCC 794
184  snCysGlySerSerLeuGlyThrLysLeuCysLeuProGlnIleGlu 200
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
795  ACTGCCAGAAAAATCAGGAATGATCAAGCTGTGGCTACCTCCACTGCCA 844
201  AsnValLysGlyThrGluAspSerGlyThrThrValLeuSerProLeuVa 217
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
845  AATGTCACAAACCGACGATTCAGTACTGGCGTGTGTGCTGTGCTGTGCT 894
217  iLeuPheGlyLeuCysLeuLeuSerLeuLeuPheIleGlyLeuMetT 234
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
895  TATCTTCTCAGGCTCTGCTCTTTATCTTATCTTATCTTATCTTATCTTAT 944
234  yAraTyroIleArgTrpLysSerLysLeuTyrserIleValCysGlyLys 250
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
945  GTCGATATCCCGACGTGAGGAGGTGAGGATGAGGATGAGGATGAGGAT 994
251  SerThrProGlySerGlySerGlySerGlySerGlySerGlySerGlySer 267
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
995  TCAGTCTCTGTCAGAGAGTGAAGGTGAAGGTGAAGGTGAAGGTGAAGGT 1044
267  uAlaProAsn.....ProSerPheSerProThrProGlyPheThrProT 282
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1045  AACTCCAGGCTCTATCCCGAGGCTTCAGCGCCAAACCCGCCCTCAACCCCA 1094
282  hLeuGlyPheSerProValProSerSerThrPheThrSerSerSerThr 298
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1095  CACTGACCTTCAGCAGACCCGACGCTTCAGTCACTGCTGCTGCTGCTGCT 1144
299  .....tyrThrProGlyAspCysProAsnPheAlaIleArg 310
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1145  CCATCAAGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1194
310  oArgArgGluValAlaProProTyroGlnGlyAlaAspProIleLeuAla 327
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1195  TCTAAGACAGAGGTGGTCCCAACG...CAGGCTGCTGACCCCTCTCTCTACG 1241
327  hAlaLeuAlaSerAspProIleProAsnProLeuGlnLysTrpGluAsp 343
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1242  GATGCTCAACCTCTGCAATCCCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1291
344  ...SerAlaHisLysProGlnSerLeuAspThrAspAspProAlaThrIle 359
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1292  GTGCTGGGAGGCCAGACACAGAGCTTGACACTGGACAGCCCTGCGATGCT 1341
359  glyrAlaValValGluAsnValProProLeuArgTrpLysGluPheValA 376
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1342  GTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1391
376  rArgLeuGlyLeuSerAspHisGluIleAspArgLeuGluLeuGlnAsn 392

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11  ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1392  GGTCTCTGGGGCTGAGGAGAGACAGAGATCGAGGGGTGGAGAGCTGCAGAAC 1441
393  GlyArgCysLeuArgGluAlaGlnTyrSerMetLeuAlaThrTrpArgAr 409
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1442  GGGNTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1491
409  gAcqThrProArgArgGluAlaThrLeuGluLeuLeuGlyArgValLeuA 426
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1492  CCGACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1541
426  rqAspMetAspLeuLeuGlyCysLeuGluAspIleGluGluAlaLeuCys 442
   ::::::::::::::::::::::::::::::::::::::::::::::::::::::
1542  GGTACATGAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1591
443  GlyProAla 445
   ::::::::::
1592  AGGCTGCTGCT 1600

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